L13 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1971:420438 CAPLUS Full-text
DOCUMENT NUMBER: 75:20438
ORIGINAL REFERENCE NO.: 75:3278h,3279a
TITLE: N-substituted 3,5-diamino-6-halopyrazinamides
INVENTOR(S): Shepard, Kenneth L.; Cragoe, Edward J., Jr.
PATENT ASSIGNEE(S): Merck and Co., Inc.
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3573306	A	19710330	US 1969-804663	19690305
NL 7001141	A	19700908	NL 1970-1141	19700127 <--
BE 746816	A	19700904	BE 1970-746816	19700304 <--

PRIORITY APPLN. INFO.: US 1969-804663 A 19690305 <--

AB Addition of diphenylcarbamoyl chloride to 3,5-diamino-6-chloropyrazinoic acid and Et3N in HCONMe2 gave 3,5-diamino-6-chloropyrazinecarboxylic diphenylcarbamic anhydride (I). Refluxing Na in iso-PrOH with guanidine-HCl and addition of I gave 1-(3,5-diamino-6-chloropyrazinoyl)guanidine. Similarly prepared were 1,1,3,3-tetramethyl-2-(3,5-diamino-6-chloropyrazinoyl)guanidine, 1-(3,5-diamino-6-chloropyrazinoyl)-3-cyanoguanidine, N-methyl-N-(cyanomethyl)-3,5-diamino-6-chloropyrazinecarboxamide, N-(2,2-diethoxyethyl)-3,5-diamino-6-chloropyrazinecarboxamide, N-(2-morpholinoethyl)-3,5-diamino-6-chloropyrazinecarboxamide, N-(4-pyridylmethyl)-3,5-diamino-6-chloropyrazinecarboxamide, N-(2-pyridyl)-3,5-diamino-6-chloropyrazinecarboxamide, 3,5-diamino-6-chloropyrazinecarboxylic acid 1,2-dimethylhydrazide, 3,5-diamino-6-chloropyrazinecarboxylic acid 1-methyl-2-benzylidenehydrazide, and N-(3,5-diamino-6-chloropyrazinoyl)morpholine. These compds. had diuretic activity at 10-100 mg.

IT 33249-56-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 33249-56-8 CAPLUS

CN 2-Pyrazinecarboxamide, 3,5-diamino-6-chloro-N-2-pyridinyl- (CA INDEX NAME)